BAR TYPES 23/4" 2'-10'' 3 ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR CONCRETE BARRIER RAIL BARS PER SPAN SPAN A | SPAN B | SPAN C * B2 56 56 112 # 5 | STR | 14'- 4" | 1674 ***** B4 # 5 | STR | 28'- 4" | 414 14 14 * S4 102 102 5'- 8" 60 264 #5 | 2 | 1560 * EPOXY COATED REINFORCING STEEL 3648 LBS. CLASS AA CONCRETE 29.4 CU.YDS.

TOTAL LIN. FT. OF CONCRETE BARRIER RAI

SPLICE	CHART
B1, B3	1'-9"
B2 B4	3/_5/

257.68 LIN. FT.

FINAL CAMBER

** INCLUDES FUTURE WEARING SURFACE

BILL OF MATERIAL FOR ONE CORED SLAB SECTION									
EXTERIOR UNIT INTE								OR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH		WEIGHT	LENGTH	WEIGHT	
B1	4	# 4	STR	25′-	-10″	69	25′-10″	69	
S1	16	# 4	3	4'-	- 3″	45	4'- 3"	45	
S2	102	# 4	3	5'-	- 4"	363	5'- 4"	363	
* S3	51	# 5	1	5′-	- 5"	288			
S5	4	# 4	3	5′-	- 6″	15	5′- 6″	15	
REINF(REINFORCING STEEL 492 LBS. 492 LBS.								
★ EP0>	Y COATI	ED REIN	FORCING	G STE		288 LBS.			
5,000 P.S.I. CONCRETE 7.1 CU. YDS. 7.1 CU. YDS.									
$\frac{1}{2}$ " Ø L.R. STRANDS No. 22 22								22	
DEAD LOAD DEFLECTION AND CAMBER									
3'-0"× 1'-9"									Γ
½″∅ L.R.									ŀ
						ŠTRAND			
CAMBER (SLAB ALONE IN PLACE)							17⁄8″ ∤		
	TION DL		OAD MAL				/		ŀ
POLFKT	MPOSED	DEAD L	OAD **				1/4" ♥		

В

FINAL CAMBER					1 ⁵ ⁄8″ ∮				
** INCLUDES FUTURE WEARING SURFACE									
	SPAN C								
BILL	BILL OF MATERIAL FOR ONE CORED SLAB SECTION								
				 		OR UNIT		OR UNIT	
BAR	NUMBER		TYPE		GTH	WEIGHT	LENGTH	WEIGHT	
B3	2	# 4	STR	28′-	- 4"	38	28'- 4"	38	
S1	16	# 4	3	4'-	- 3"	45	4'- 3"	45	
S2	58	# 4	3		- 4"	207	5'- 4"	207	
* S3	30	# 5	1		- 5"	169			
S5	4	# 4	3	5′-	- 6″	15	5'- 6"	15	
	ORCING :		CODOTN	- CTE		305 LBS.		305 LBS.	
	(Y COATE P.S.I. CO			<u> </u>	EL 169 LBS. 4.1 CU. YDS.			1 CIL YDS	
3,000	1 .3.1. 00	JNCILLIE		Та	1 00. 103.				
1/2"Ø L	.R. STRA	NDS	No.			12		12	
DEAD LOAD DEFLECTION AND CAMBER									
						3'-0	0"× 1'-9"		
					½″Ø L.R. STRAND				
CAMBER (SLAB ALONE IN PLACE)					7/16″ ▶				
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD **					1/32″ ♥				
	**************************************						-7./		

7/16" ♦

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 21/2" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE 21/2" Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO 11/2" ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE B LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. THE 12" WIDE BOND BREAKING TAPE SHALL BE CENTERED OVER THE JOINT AND CONFORM TO THE REQUIREMENTS OF TYPE N BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

VERTICAL GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR ELASTOMERIC BEARINGS. SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

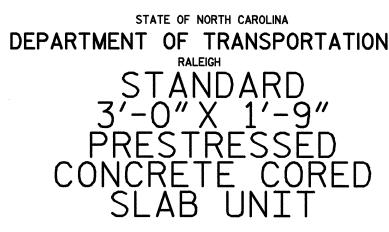
GRADE 270 S	CO	
	½″Ø L.R.	SPA
AREA SQUARE INCHES)	0.153	EXTERI
JLTIMATE STRENGTH	41 700	INTERI
LBS.PER STRAND)	41,300	TOTAL
APPLIED PRESTRESS LBS.PER STRAND)	30,980	SPA
LDS. FER STRAND /		EXTERI
		TNITERT

	CORED S	SLABS	REQU	IRED
	SPAN A	NUMBER	LENGTH	TOTAL LENGTH
l	EXTERIOR C.S.	2	50′-0 ⁵ ⁄8″	100'-1'/4"
┨	INTERIOR C.S.	11	50′-05/8″	550′-6¾"
	TOTAL	13		650'-8 <mark> /</mark> 8"
I	SPAN B	NUMBER	LENGTH	TOTAL LENGTH
J	EXTERIOR C.S.	2	50′-0 ⁵ ⁄ ₈ ″	100′-1 ¹ /4″
	INTERIOR C.S.	11	50′-05⁄8″	550′-67⁄8″
	TOTAL	13		650'-8 / ₈ "
	SPAN C	NUMBER	LENGTH	TOTAL LENGTH
	EXTERIOR C.S.	2	28′-8 ³ / ₁₆ "	57′-5 ⁵ ⁄ ₈ ″
	INTERIOR C.S.	11	28′-8 ¹³ / ₁₆ "	316′-0 ¹⁵ / ₁₆ "
	TOTAL	13		373′-6% ₆ ″

B-3884 PROJECT NO. ____ ONSLOW COUNTY

STATION: 14+89.75 -L-

SHEET 5 OF 5



00	CTOBER					1981
		REV	SION	S		SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-9
1			3			TOTAL SHEETS
2			4			23

